I claim:

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- 1. An apparatus for the release of an active fluid agent comprising:
 - a reservoir of active agent;
- a compound selective polymer in proximity to said reservoir;
 - a release orifice in said reservoir, said compound selective polymer experiencing a change of shape upon detection of a target compound, said change of shape exerting pressure on said reservoir causing said active agent to exit said reservoir through said release orifice.
 - 2. The apparatus of claim 1 wherein said change of shape is an expansion.
 - 3. The apparatus of claim 1 wherein said change of shape is a contraction.
- 4. The apparatus of claim 1 wherein said compound selective polymer is a polystyrene.
 - 5. The apparatus of claim 1 wherein said compound selective polymer is a polyalphmethylstyrene.

6. An apparatus for the release of an active fluid agent comprising:

means for holding a quantity of an active fluid agent;

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means for releasing said active fluid agent into a surrounding environment upon detection of presence of a predetermined target compound, said means for releasing comprising a compound selective polymer.

- 7. The apparatus of claim 6 wherein said means for releasing said active fluid agent further comprises an orifice.
- 8. The apparatus of claim 6 wherein said means for releasing said active fluid agent is a polystyrene.
 - 9. The apparatus of claim 6 wherein said means for releasing said active fluid agent is a polyalphamethylstyrene.
- 10. A method for releasing a an active fluid agent into an
 environment upon detection of a target compound comprising the
 steps of:

storing an active fluid agent in polymer reservoir;

said polymer reservoir expanding or contracting in a presence

of a target compound;

said expansion or contraction expelling a portion of said active fluid agent into said environment.

- 11. The method of claim 10 wherein said polymer is a polystyrene.
- 5 12. The method of claim 10 wherein said polymer is a polyalphamethylstyrene.
 - 13. The method of claim 10 wherein said active agent is a perfume compound.
- 14. An apparatus for releasing a sweet smelling compound into

 10 surrounding air in a room where odors are generated comprising a

 reservoir containing a volume of the sweet smelling compound, the

 reservoir being made from a special polymer which detects certain

 order causing compounds and contracts or expands in their pres
 ence, this contraction or expansion pushing the sweet smelling

 15 compound out of a small hole in the reservoir when the one of the

 odder causing compounds is present.
 - 15. The apparatus of claim 14 where the sweet smelling compound is a perfume.
 - 16. The apparatus of claim 15 where the special polymer is a

polystyrene.

17. The apparatus of claim 15 where the special polymer is a polyalphamethylstyrene.